

HYDROPHOBIC COATING FOR OXIDE SURFACES

ABSTRACT

The disclosure relates to hydrophobic coatings for oxidized surfaces and methods of producing the same.

5 Such coatings may be produced by applying a compound of the general formula AX_n or $A(R^1)_mX_n$ to an oxidized surface followed by a nucleophilic compound of the general formula DR^2 . The processes may result in a hydrophobic unreactive organic coating that sterically inhibits
10 access to the underlying oxidized surface or reactive groups. In selected embodiments, the hydrophobic coating may form a monolayer.